IN THE CLAIMS

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Amended claims follow. Insertions are underlined, while deletions are struck out. The status of each claim is included prior to each heading.

- 1. (Original) An integrated circuit, comprising: an active circuit: a metal layer disposed, at least partially, above the active circuit; and a bond pad disposed, at least partially, above the metal layer; wherein the metal layer is meshed.
- (Original) The integrated circuit as recited in claim 1, wherein the active circuit 2. includes an input/output (I/O) bus.
- (Original) The integrated circuit as recited in claim 1, wherein the active circuit 3. includes a plurality of transistors.
- (Original) The integrated circuit as recited in claim 1, wherein the metal layer includes an interconnect metal layer.
- (Original) The integrated circuit as recited in claim 4, wherein the interconnect 5. metal layer interconnects the bond pad with a plurality of underlying metal layers.
- 6. (Currently Amended) The integrated circuit as recited in claim 5, wherein each of the underlying metal layers are is in electrical communication by way of a plurality of vias.
- 7. (Original) The integrated circuit as recited in claim 1, wherein the metal layer includes a plurality of openings.

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- 8. (Original) The integrated circuit as recited in claim 7, wherein the openings are adapted for facilitating an interlock between the metal layer and an inter-metal dielectric layer disposed between the metal layer and the bond pad.
- 9. (Original) The integrated circuit as recited in claim 8, wherein the inter-metal dielectric layer is constructed from a material selected from the group consisting of a low-K dielectric material and a fluorinated silica glass (FSG) material.
- 10. (Original) The integrated circuit as recited in claim 7, wherein the openings are completely enclosed around a periphery thereof.
- 11. (Original) The integrated circuit as recited in claim 7, wherein the openings have a substantially square configuration.
- 12. (Original) The integrated circuit as recited in claim 7, wherein the openings define a plurality of substantially linear first portions and a plurality of substantially linear second portions which intersect.
- 13. (Original) The integrated circuit as recited in claim 12, wherein the openings define a matrix of openings.
- 14. (Original) The integrated circuit as recited in claim 13, wherein a plurality of interconnect vias are formed in rows along the first portions.
- 15. (Original) The integrated circuit as recited in claim 14, wherein the interconnect vias are spaced along a length of the first portions.
- 16. (Original) The integrated circuit as recited in claim 15, wherein the interconnect vias include one single row for each of the first portions.
- 17. (Original) The integrated circuit as recited in claim 15, wherein the interconnect vias include at least two spaced rows for each of the first portions.

- (Original) The integrated circuit as recited in claim 17, wherein a width of the 18. first portions is enlarged to accommodate the at least two spaced rows for each of the first portions.
- 19. (Withdrawn)

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- 20. An integrated circuit, comprising: an active circuit means for processing electrical signals; a metal layer disposed, at least partially, above the active circuit means and including a mesh means for preventing damage incurred during a bonding process; and a bond pad disposed, at least partially, above the metal layer.
- 21. An integrated circuit, comprising:
- a semiconductor structure including an active circuit including an input/output (I/O) bus and a plurality of transistors forming a core of circuits;

a plurality of vertically spaced underlying metal layers disposed, at least partially, under the active circuit and around a periphery thereof, wherein each of the underlying metal layers are in electrical communication by way of a plurality of underlying vias with the active circuit and other underlying metal layers;

a meshed interconnect metal layer disposed, at least partially, above the I/O bus of the active circuit and around a periphery thereof, the interconnect metal layer being in electrical communication with the underlying metal layers by way of a plurality of additional vias;

an inter-metal dielectric layer disposed, at least partially, above the interconnect metal layer, the inter-metal dielectric layer constructed from a material selected from the group consisting of a low-K dielectric material and a fluorinated silica glass (FSG) material;

a top metal layer disposed, at least partially, above the inter-metal dielectric layer, the top metal layer for serving as a bond pad, the top metal layer being in electrical communication with the interconnect metal layer by way of a plurality of interconnect vias; and

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a passivation layer disposed, at least partially, above the top metal layer. wherein the interconnect metal layer is meshed for preventing damage incurred during a bonding process.

22.- 26. (Withdrawn)

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- (New) The integrated circuit as recited in claim 1, wherein the metal layer is 27. disposed, at least partially, above the active circuit along a vertical axis.
- 28. (New) The integrated circuit as recited in claim 1, wherein the metal layer is disposed, at least partially, directly above the active circuit.
- 29. (New) The integrated circuit as recited in claim 8, wherein the inter-metal dielectric layer is constructed from a low-K dielectric material.
- 30. (New) The integrated circuit as recited in claim 8, wherein the inter-metal dielectric layer is constructed from a fluorinated silica glass (FSG) material.
- 31. (New) The integrated circuit as recited in claim 1, wherein the mesh ensures that bonds are capable of being placed over the active circuit without damage thereto during a bonding process.